



A.D. 1872, 15th NOVEMBER. N° 3412.

Treating Night Soil, &c.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by Gustav Alsing at the Office of the Commissioners of Patents, with his Petition, on the 15th November 1872.

I, GUSTAV ALSING, Civil Engineer, 3, Bank Place, Preston, Lancashire, do hereby declare the nature of the said Invention for "CERTAIN IMPROVEMENTS IN THE TREATMENT OF NIGHT SOIL AND OTHER REFUSE MATTER," to be as follows:—

In the question of dealing with night soil, sewage, or refuse matter in general, for the purpose of using it as manure or otherwise, two of the 10 important points are,—

First. That of fixing one of the elements contained in the aforesaid night soil, sewage, or other refuse matter, and which is one of those most desirable for the soil, namely, the ammonia.

And second. That of solidifying the night soil, sewage, or other refuse 15 matter, thus rendering it in a convenient condition for transport and immediate use.

These two important points I effect by mixing the herein-before named night soil, sewage, or other refuse matter with sulphate of lime,

Alsing's Improvements in Treating Night Soil, &c.

commonly called gypsum or plaster of Paris, in a given proportion. This proportion I find to be generally about one part of the gypsum to three parts of the above named night soil, sewage, or refuse matter. But inasmuch as it greatly depends on the state of the said night soil, sewage, or other refuse matter whether it contains more or less water, it 5 will be necessary to add more or less of the said gypsum or plaster of Paris, which by a few trials easily can be ascertained, and I do not therefore confine myself to the above proportion of the mixture.

Other ingredients combined with the above said gypsum, such as cements, unslacked lime, or other minerals and substances may be used 10 for the herein-before named purpose, but I prefer the use of gypsum by itself.

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